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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/603,040	06/24/2003	Nobuaki Nagao	MAT-8426US	2379
23122	7590	09/07/2005	EXAMINER	
RATNERPRESTIA P O BOX 980 VALLEY FORGE, PA 19482-0980			SHANKAR, VIJAY	
			ART UNIT	PAPER NUMBER
			2673	

DATE MAILED: 09/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

10/603,040

**Applicant(s)**

NAGAO ET AL.

**Examiner**

VIJAY SHANKAR

**Art Unit**

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 24 June 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-11 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### *Drawings*

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the first board and second board must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

***Claim Rejections - 35 USC § 112***

2. Claims 1-11 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The recitation " first board " and " second board" are not in the written description of the specification as claimed in Claims 1,3,5.

***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1, 5, 8 are rejected under 35 U.S.C. 102(e) as being anticipated by Lim (US 2005/0057451 A1) .

Regarding Claim 1, Lim teaches a plasma display apparatus including:  
a panel section including: a first board having a plurality of scanning electrodes (12Y in fig.3) and sustain electrodes (12Z in fig.3) in pairs (fig.3; Paragraph 0057-0069); and  
a second board having data electrodes (which is same as address electrode 20X in

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fig.3) which cross the scanning electrodes and the sustain electrodes, and faced the first board (figs. 1-3; paragraph 0009-0016, 0028-0039); and a driver for outputting a driving voltage for driving the panel section (Figs.1-4; Paragraph 0027-0029, 0082-0096), the plasma display apparatus comprising: a sustaining period when a sustaining pulse is alternately applied to the scanning electrodes and the sustain electrodes for keeping discharge (Figs. 1-4; paragraph 0016-0024, 0030-0031; 0043-0046; 0082-0092); and an erasing period when a ramp voltage pulse whose polarity differs from polarity of the sustaining pulse is applied to an electrode, which differs from an electrode where a last pulse of the sustaining pulse is applied (Figs. 1-4; paragraph 0024-0031, 0028-0039, 0066-0078).

Regarding Claim 5, Lim teaches a plasma display apparatus including: a panel section including: a first board having a plurality of scanning electrodes (12Y) and sustain electrodes (12Z) in pairs (fig.3; Paragraph 0057-0069); and a second board having data electrodes (which is same as address electrode 20X in fig.3) which cross the scanning electrodes and the sustain electrodes, and faced the first board (figs. 1-3; paragraph 0009-0016, 0028-0039); and a driver for outputting a driving voltage for driving the panel section (Figs.1-4; Paragraph 0027-0029, 0082-0096), the plasma display apparatus comprising: a sustaining period when a sustaining pulse is alternately applied to the scanning electrodes and the sustain electrodes for keeping discharge (Figs. 1-4; paragraph 0016-0024, 0030-0031; 0043-0046; 0082-0092), wherein a pulse width  $ts_2$  of a last pulse of the sustaining pulse is wider than a

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pulse width  $t_{s1}$  of the sustaining pulse before the last pulse (Figs. 1-4; paragraph 0029-0031; 0041-0044; 0069-0078, 0121-0127).

Regarding Claim 8, Lim teaches a the plasma display apparatus further comprising: an erasing period after the sustaining period, wherein the erasing period is a period when a ramp voltage pulse whose polarity differs from polarity of the last pulse of the sustaining pulse in the sustaining period is applied to an electrode, which differs from an electrode where the last pulse of the sustaining pulse is applied. (Figs. 1-4; paragraph 0024-0031, 0028-0039, 0066-0078).

### ***Conclusion***

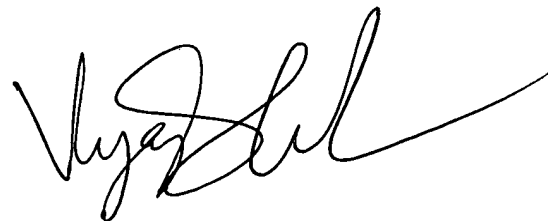
5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Roh and Lim teaches the plasma display panel.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to VIJAY SHANKAR whose telephone number is (571) 272-7682. The examiner can normally be reached on M-F 7:00 am - 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, BIPIN SHALWALA can be reached on (571) 272-7681. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'Vijay Shankar', with a long horizontal flourish extending to the right.

VIJAY SHANKAR  
Primary Examiner  
Art Unit 2673

VS